jean-françois**pambrun**

researcher | engineer | software developer

about

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languages

bilingual french/english

programming

java, javascript
matlab, c, c++
linux, xml, git
html5, latex

standards

dicom, ihe, hl7
jpeg 2000, jpip

education

since 2011	**Ph.D. in electrical engineering (in progress)** *improving medical image compression and transmission*	École de technologie supérieure (ÉTS)
2009-2010	**M.Sc. in electrical engineering (fast-track‡)** *evaluating the diagnostic quality of lossy compressed images*	École de technologie supérieure (ÉTS)
2005-2009	**B.ing. in electrical engineering** *information technologies and telecommunication*	École de technologie supérieure (ÉTS)
2001-2005	**Diploma of college studies in electrical engineering** *computerized system technologies*	Cégep de lOutaouais

experience

2009-2014	**lecturer** *software development environment (ele116)* *image processing and analysis (ele747)*	École de technologie supérieure (ÉTS)
2009-2014	**teaching assistants** *healthcare distributed systems (gts840)* *software development environment (ele116)* *image processing and analysis (ele747)*	École de technologie supérieure (ÉTS)
01-09 2009	**software developer** *head-up display simulation for military flight simulators*	CAE inc.
2006-2008	**research assistant** *implementation of a standard compliance validation tool for hl7v3* *implementation and evaluation of a medical image streaming platform*	École de technologie supérieure (ÉTS)

awards

2014	**SIIM annual meeting best scientific poster**	500$
2011	**NSERC doctoral Alexander-Graham-Bell scholarship**	35,000$/yr
2011	**ÉTS excellence graduate student scholarship**	20,000$/yr
2011	**FRQNT doctoral research scholarship**	20,000$/yr
2009	**FRQNT master's research scholarship**	15,000$/yr
2006	**NSERC undergraduate student research awards**	4,500$

volunteer work

since 2013	**NPO board member** vice-president of services academic commission student representative disciplinary committee student representative	Association étudiante de l'ÉTS

† not a member of the OIQ
‡ allows doctoral admission without obtaining the master's degree

publication

articles in peer-reviewed journals

Computed Tomography Image Compressibility and Limitations of Compression Ratio-Based
  Guidelines

  Pambrun J.F. Noumeir R.

  Journal of Digital Imaging. *Springer Science, 2015*

Teaching DICOM by Problem Solving.

  Noumeir R. Pambrun J.F.

  Journal of Digital Imaging. *Springer Science, 2012*

Streaming of medical images using JPEG2000 interactive protocol

  Pambrun J.F. Noumeir R.

  International Journal of Innovative Computing and Applications. *2012*

Using JPEG 2000 Interactive Protocol to Stream a Large Image or a Large Image Set

  Noumeir R. Pambrun J.F.

  Journal of Digital Imaging. *Springer Science, 2010*

international peer-reviewed conferences/proceedings

Limitations of the SSIM quality metric in the context of diagnostic imaging(accepted)

  Pambrun J.F. Noumeir R.

  IEEE International Conference on Image Processing (ICIP), 2015

VOI-Based JPEG 2000 Compression for Medical Applications(submitted)

  Pambrun J.F. Noumeir R.

  IEEE International Conference on Visual Communications and Image Processing (VCIP), 2015

Kurtosis Constrained Image Compression for Medical Applications(submitted)

  Pambrun J.F. Noumeir R.

  IEEE International Conference on Visual Communications and Image Processing (VCIP), 2015

Compressibility variations of JPEG2000 compressed computed tomography

  Pambrun J.F. Noumeir R.

  IEEE International Conference of the Engineering in Medicine and Biology Society (EMBC), 2013

Learning DICOM by solving real clinical problems

  Noumeir R. Pambrun J.F.

  IEEE-EMBS International Conference on Biomedical and Health Informatics, 2012

Perceptual quantitative quality assessment of JPEG2000 compressed ct images with various
  slice thicknesses

  Pambrun J.F. Noumeir R.

  IEEE International Conference on Multimedia and Expo, 2011

Interoperability testing of integration profiles based on HL7 standard version 3

  Pambrun J.F. Noumeir R.

  IEEE International Conference on Information Technology and Applications in Biomedicine, 2010

Hands-on Approach for Teaching HL7 version 3

  Noumeir R. Pambrun J.F.

  IEEE International Conference on Information Technology and Applications in Biomedicine, 2010

Streaming of Medical Images Using JPEG 2000 Interactive Protocol

  Noumeir R. Pambrun J.F.

  IEEE International Conference on Systems, Signals and Image Processing. 2010

Interoperability Testing Software for Sharing Medical Documents and Images

  Berube R, Pambrun J.F, Noumeir R.

  IEEE International Conference on Internet and Web Applications and Services. 2010

Images within the Electronic Health Record

  Noumeir R. Pambrun J.F.

  IEEE International Conference on Image Processing. 2009